



## Psychoco 2020

### International Workshop on Psychometric Computing

February 27-28, 2020

TU Dortmund University, Dortmund, Germany

#### Thursday, February 27

*Chair: Philipp Doebler*

13:00 *Welcome*

13:15 Rudolf Debelak Score-Based Measurement Invariance Tests for Multistage Testing

13:38 Letty Koopman Mokken's Scalability Coefficients for Multilevel Data

14:00 Michela Battauz Shrinkage Estimation of the Three-Parameter Logistic Model

14:23 Philip Tzvi Reiss Functional Data Analysis with the refund Package

14:45 *Coffee break*

*Chair: Florian Wickelmaier*

15:30 Timo von Oertzen Mean Comparisons under Uncertainty or Missing Groups

15:53 Boris Forthmann Are Longer Verbal Expressions Really Semantically More Similar to Each Other? An Investigation of the Elaboration-Bias in Vector-Based Models of Word Meaning

16:15 Stefano Noventa Representing Probabilistic Models of Knowledge Space Theory by Multinomial Processing Tree Models

16:38 Mariia Mazorchuk PISA Data Analysis Leveraging R: Pros and Cons

19:00 *Dinner (Nhy Star, Hansastraße 24)*

#### Friday, February 28

*Chair: Carolin Strobl*

09:15 Achim Zeileis The Power of Unbiased Recursive Partitioning: A Unifying View of CTree, MOB, and GUIDE

09:38 Lennart Schneider Stability Assessment of Tree Ensembles and Psychotrees

10:00 Markus Löcher Unbiased Variable Importance for Random Forests

10:25 *Coffee break*

*Chair: Achim Zeileis*

11:00 Niels Smits The Apriori Algorithm as an Engine for Computerized Adaptive Assessment

11:23 Andreas Alfons Robust Mediation Analysis in R Using Package robmed

11:45 Thilo Welz Fisher-z Based Confidence Intervals of Correlations in Fixed and Random-Effects Meta-Analysis

12:08 Charles Driver Information Theoretic Approaches for Quantifying Model Misspecification

12:30 *Lunch break (on campus)*

*Chair: Michela Battauz*

14:15 Hannelies de Jonge Dealing with Artificially Dichotomized Variables in Meta-Analytic Structural Equation Modeling

14:38 Alexander Robitzsch Structural Equation Modeling for Social Relations Models: The R Package srm

15:00 Benedikt Langenberg The semnova Package for Latent Repeated Measures ANOVA

15:23 Yves Rosseel Improving the Success Rate of Optimization Algorithms in Psychometric Software

15:45 *Closing*